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VISITING CHINA'S AERODYNAMICS RESEARCH AND DEVELOPMENT CENTER

by

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By: Hu Yongdai, Li Yaping

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VISITING CHINA'S AERODYNAMICS RESEARCH AND DEVELOPMENT CENTER

Hu Yongdai
Li Yaping

The Chinese Aerodynamics Research and Development Center, which is located within the boundaries of our province, was established to meet the needs of China's aviation and space industry and the peoples' economic development. The pioneers of this undertaking went through more than 20 years of hard work and here set up China's largest and best equipped wind tunnel complex and a base which can offer various types of specialized test facilities.



"Sails and shadows on the Pearl River" building complex carries out flow form display tests in water tunnel.

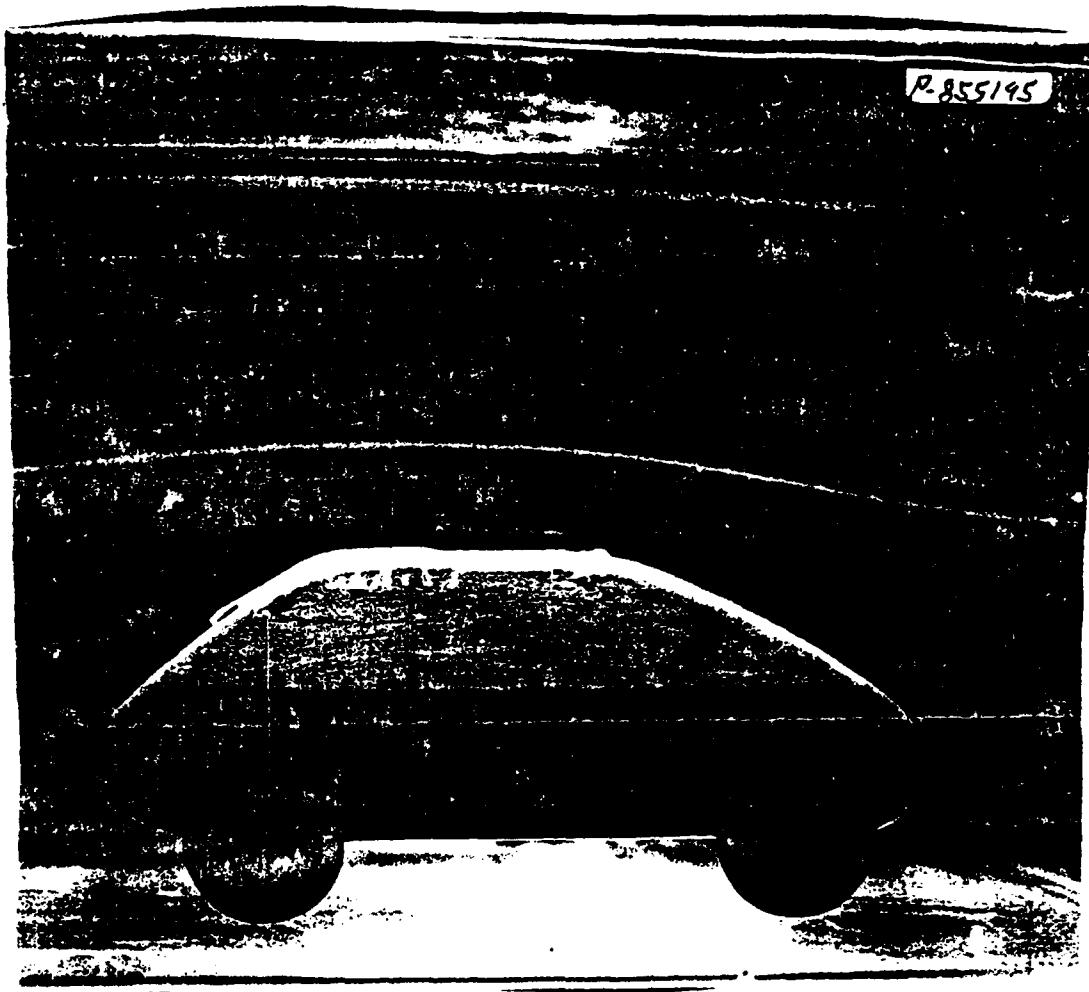


Testing aircraft model in wind tunnel.

The wind tunnel complex and test facilities, which were designed and built by China, can not only conduct experimental, theoretical and applied research in aviation and space vehicle and wind engineering aerodynamics, provide test results for flight vehicle design departments and peoples' economic departments and undertake research and design of aerodynamic test facilities, but can also provide the necessary methodology for certain areas of unconventional experimental technology. This center has provided valuable experimental data for the development and design of China's experimental com-

munications satellites, carrier rockets, aircraft, automobiles, buildings, bridges, etc. The center has made important contributions to China's aviation and space industry and to the peoples' economic construction.

This center has a large group of scientific and technical personnel, administrative personnel and first-rate specialists engaged in aerodynamics research and testing. They gave up better living conditions in big cities to come here and use their sweat and toil and quietly offer themselves to develop sophisticated science and technology for the fatherland. They also set up a graduate studies department here for training qualified people in advanced research. They also develop friendly contacts with people of similar occupations in various other countries. Bilateral technological exchange agreements and memoranda have been signed with France, Federal Republic of Germany, Rumania, Yugoslavia, Sweden, United States, etc. At present, numerous scientific and technical personnel of the Chinese Aerodynamics Research and Development Center are vigorously implementing the essentials of the high-technology research and development plan approved by the Party Central Committee for developing China's aerodynamics facilities, development having China's distinctive system for transportation back and forth between space and earth, greeting the challenge of the world's new technology revolution with hard work and the utmost exertion.



C

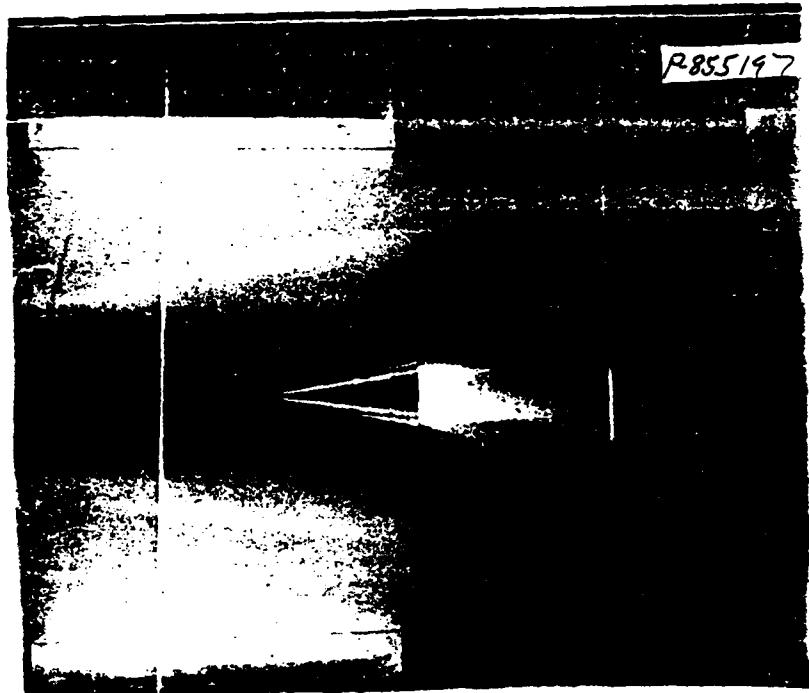
Flow form display testing of automobile in wind tunnel.



三台呈字形排列的风扇电机

D

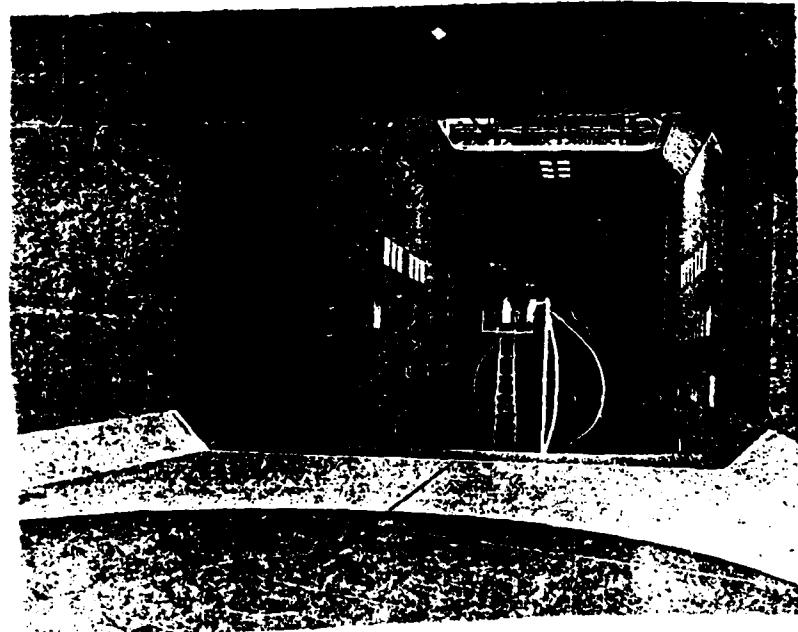
Three electric fans arranged in the form of the character **品**.



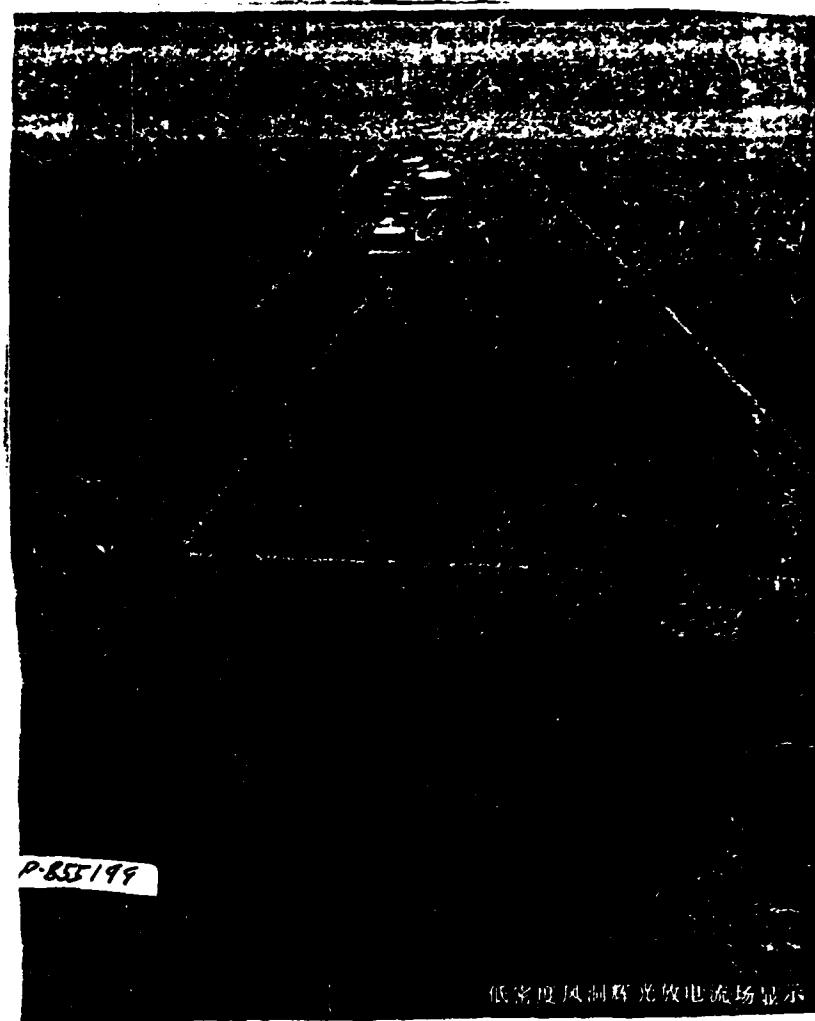
E

Flow field display holographic interference testing of flight vehicle in high-speed, super-high-speed wind tunnel.

F



Chinese-designed and -built large low-speed wind tunnel is Asia's largest low-speed wind tunnel.



G

Low-density wind tunnel glow-discharge flow field display.

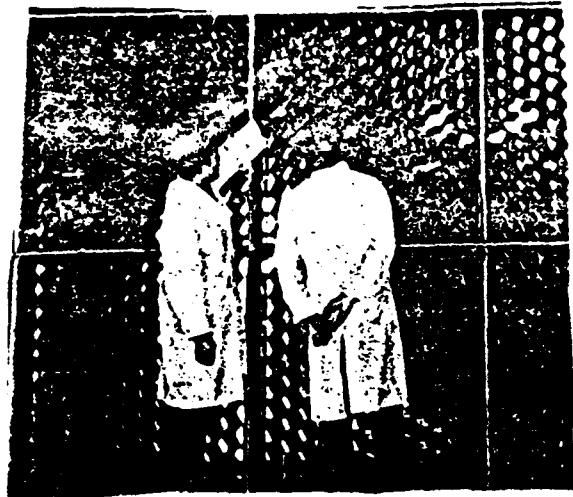


Photo 1: Technical personnel perform inspection on wind tunnel honeycomb.

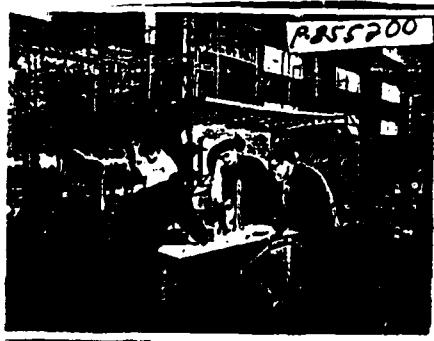


Photo 2: The head of the research institute performs on-site analysis of dynamometer test data of satellite carrier model.



Photo 3: Scientific and technical personnel evaluate aircraft test data on-site at the wind tunnel



Photo 4: Engineering and technical personnel inspect the installation of rocket warhead model.

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